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PEOPLE AT WORK

OCCUPATIONAL EMPLOYMENT STATISTICS

NEW HAMPSHIRE STAFFING PATTERNS IN HOSPITALS 1983

NEW HAMPSHIRE DEPARTMENT
OF EMPLOYMENT SECURITY

OCCUPATIONAL STAFFING PATTERNS

OF

HOSPITALS IN NEW HAMPSHIRE

1983

An Occupational Employment Statistics Survey

Conducted By The

Economic Analysis and Reports Section

NEW HAMPSHIRE DEPARTMENT OF EMPLOYMENT SECURITY

In Cooperation With The

U. S. BUREAU OF LABOR STATISTICS

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PREFACE

Our sincere appreciation is extended to those employers who participated in this survey. Without their support, this publication would not have been possible. Special thanks is given to Edmond Duchesne, Financial Analyst, Bureau of Institutional Health Services for providing us with data on completed and proposed hospital projects for the years 1983 and 1984.

We would also like to express our thanks to the United States Department of Labor, both at the regional level in Boston, Mass. and the national level in Washington, D.C. for their technical assistance in the Federal-State Cooperative effort.

This report was prepared by the New Hampshire Occupational Employment Statistics (OES) Program staff William Halm, and other Research staff including; Tracey Petrozzi, and Madaline Shanelaris, with programming and data processing support provided by Charles Marshall.

Your comments and suggestions as well as requests for more information are most welcome. We may be reached at the following address:

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INTRODUCTION

The United States Department of Labor initiated the OES program in mid-1971 to meet the increasing demand for current occupational data. The program is based upon the collection of employment data by mail sampling selected sectors of the economy on a recurring three year cycle.

Publications of the first, second and third cycles include: Government (1974, 1977, 1979 and 1982); Trade (1976, 1979 and 1982); Manufacturing (1977 and 1980), Construction, Insurance, Finance, Real Estate and Services (1978); Educational Services (1978), Regulated Industries (1976, 1979, 1982) and Hospitals (1980).

Between June 1983 and April 1984, the New Hampshire Department of Employment Security conducted an occupational employment survey of Hospitals in New Hampshire ...by means of a questionnaire. This report is the second in the third survey cycle and was compiled from usable returns from the original plus one follow up.

As used in this report, Standard Industrial Classification (SIC) defines industries according to composition and structure and spans the entire field of economic activities. Industrially classified statistics are used not only to show how industries have performed over past years but to indicate emerging and rapidly growing industries. The data obtained from these surveys is being used as input to update the OES Industry/Occupation Matrix. It, in turn, provides the base for projecting the non-farm sector or any industry subdivision thereof.

The goal of the OES Program is to direct training programs to meet both current and long-range personnel needs. To that end, it is an invaluable tool enabling employers, educational planners, manpower analysts, economists and other users to intelligently deal with inequities in the supply and demand of workers in specific occupations on the local, state or national level. Some industries could not be published since there were insufficient usable returns and the information could be misleading or publication would jeopardize the confidentiality of data provided by some of the firms reporting.

All data presented in this publication on Hospitals in New Hampshire include employment data for private hospitals, State hospitals, and local government hospitals. Federal Government hospitals (such as Veterans Administration) were excluded because occupational employment data for these units were included in the publication for Government (1980-1982).

A new coding structure was used for the Manufacturing and Hospital survey. (See appendix.) The total number of occupations were reduced from 1,606 to 720 to more nearly agree with the number used by the Standard Occupational Classification (SOC) system and the Census which use 663 and 503 occupational titles respectively.

SUMMARY

OCCUPATIONAL EMPLOYMENT

HOSPITALS IN NEW HAMPSHIRE

(SIC 806)

This group includes establishments primarily engaged in providing diagnostic services, extensive medical treatment including surgical services, and other hospital services, as well as continuous nursing services. These establishments have an organized medical staff, inpatient beds, and equipment and facilities to provide complete health care.

During the month of April 1983 there were an estimated 14,124 hospital workers in New Hampshire. More than half of these workers held jobs in the professional, paraprofessional and technical occupational group. This group was largely made up of Registered Nurses and Licensed Practical Nurses which together accounted for more than two-thirds of the workers. The next largest occupational group was services which accounted for almost 22 percent of the hospital jobs. This group was largely made up of nursing aides, orderlies, and attendants (34.0 percent) and maids and housekeeping cleaners (17.2 percent). There were 91 specific occupations employing ten or more workers and the five employing the largest number of workers accounted for more than half of all hospital in New Hampshire.

HOSPITALS IN NEW HAMPSHIRE
(SIC 806)

THE FIFTEEN OCCUPATIONS EMPLOYING THE
LARGEST NUMBER OF WORKERS
LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	APRIL 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
1	32502	Registered Nurses	4,177	29.6
2	32505	Licensed Practical Nurses	1,063	7.5
3	66008	Nursing Aides, Orderlies and Attendants	1,039	7.4
4	67002	Maids and Housekeeping Cleaners	525	3.7
5	32902	Medical and Clinical Laboratory Technologists	353	2.5
6	65038	Food Preparation Workers	343	2.4
7	55105	Medical Secretaries	266	1.9
8	32921	Radiologic Technicians	194	1.4
9	55308	Typists	189	1.3
10	57102	Switchboard Operators	183	1.3
11	55332	Interviewing Clerks	170	1.2
12	32302	Respiratory Therapists	151	1.1
13.	32917	Radiologic Technologists	145	1.0
14	55344	Billing, Cost and Rate Clerks	142	1.0
15	32905	Medical and Clinical Laboratory Technicians	135	1.0

HOSPITALS IN NEW HAMPSHIRE
(SIC 8060)

THE SIXTEEN MOST FREQUENTLY REPORTED OCCUPATIONS
LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL	PERCENT OF FIRMS REPORTING
1	32502	Registered Nurses	100.0
	32505	Licensed Practical Nurses	100.0
	65028	Cooks, Institution Or Cafeteria	100.0
	66008	Nursing Aides, Orderlies, and Attendants	100.0
5	67002	Maids and Housekeeping Cleaners	95.8
	85132	Maintenance Repairers, General Utility	95.8
7	32308	Physical Therapists	91.7
	32517	Pharmacists	91.7
	32911	Medical Records Technicians and Technologists	91.7
	57102	Switchboard Operators	91.7
11	15008	Medicine and Health Services Managers	87.5
	32521	Dieticians and Nutritionists	87.5
	32902	Medical and Clinical Laboratory Technologists	87.5
14	19005	General Managers and Top Executives	83.3
	61008	Housekeepers	83.3
	65038	Food Preparation Workers	83.3

STAFFING PATTERNS

HOSPITALS IN NEW HAMPSHIRE

(SIC 806)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	PERCENT OF FIRMS REPORTING
TOTAL OCCUPATIONS		14,124	100.0	
MANAGERS AND ADMINISTRATORS	10000-19999	433	3.1	
Financial Managers	13002	30	0.2	79.2
Personnel, Training, And Labor Relations Managers	13005	26	0.2	70.8
Purchasing Managers	13008	22	0.2	58.3
Marketing, Advertising, And Public Relations Managers	13011	18	0.1	41.7
Medicine And Health Services Managers	15008	133	0.9	87.5
Food Service And Lodging Managers	15026	21	0.2	54.2
General Managers And Top Executives	19005	40	0.3	83.3
All Other Managers And Administrators	19999	143	1.0	NA
PROFESSIONAL, PARAPROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	7,693	54.5	
Accountants and Auditors	21114	32	0.2	62.5
All Other Financial Specialists	21199	15	0.1	NA
Purchasing Agents	21308	21	0.2	54.2
Personnel, Training, And Labor Relations Specialists	21511	24	0.2	37.5
Compliance Officers And Enforcement Inspectors	21911	18	0.1	12.5
All Other Management Support Workers	21999	41	0.3	NA
All Other Engineers	22199	15	0.1	NA
All Other Engineering And Related Technicians	22599	4	*	NA
All Other Physical Scientists	24199	12	0.1	NA
All Other Life Scientists	24399	13	0.1	NA
All Other Physical And Life Science Technicians	24599	28	0.2	NA
Computer Programmers	25105	12	0.1	20.8
Computer Programmer Aides	25108	15	0.1	20.8

STAFFING PATTERNS

HOSPITALS IN NEW HAMPSHIRE

(SIC 806)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	PERCENT OF FIRMS REPORTING
All Other Mathematical Scientists	25319	7	0.1	NA
All Other Social Scientists	27199	21	0.1	NA
Social Workers, Medical And Psychiatric	27302	94	0.7	75.0
Social Workers, Except Medical And Psychiatric	27305	16	0.1	25.0
Social Service Technicians	27308	12	0.1	16.7
Nursing Instructors	31114	85	0.6	50.0
All Other Teachers And Instructors	31399	73	0.5	NA
Librarians, Professional	31502	16	0.1	50.0
Technical Assistants, Library	31505	10	0.1	12.5
Physicians And Surgeons	32102	11	0.1	12.5
All Other Health Diagnosing And Treating Practitioners	32199	1	*	NA
Respiratory Therapists	32302	151	1.1	79.2
Occupational Therapists	32305	42	0.3	41.7
Physical Therapists	32308	119	0.8	91.7
Speech Pathologists And Audiologists	32314	18	0.1	25.0
All Other Therapists	32399	25	0.2	NA
Registered Nurses	32502	4,177	29.6	100.0
Licensed Practical Nurses	32505	1,063	7.5	100.0
Emergency Medical Technicians	32508	64	0.4	25.0
Physicians Assistants	32511	11	0.1	12.5
Pharmacists	32517	105	0.7	91.7
Dieticians and Nutritionists	32521	39	0.3	87.5
Dietetic Technicians	32523	61	0.4	45.8
Medical and Clinical Laboratory Technologists	32902	353	2.5	87.5
Medical and Clinical Laboratory Technicians	32905	135	1.0	70.8
Medical Records Technicians and Technologists	32911	80	0.6	91.7
Nuclear Medicine Technologists	32914	24	0.2	33.3
Radiologic Technologists	32917	145	1.0	45.8
Radiologic Technicians	32921	194	1.4	66.7
Electroencephalograph Technicians and Technologists	32923	32	0.2	33.3
Electrocardiograph Technicians And Technologists	32926	77	0.5	62.5
Surgical Technicians	32928	73	0.5	58.3

STAFFING PATTERNS

HOSPITALS IN NEW HAMPSHIRE

(SIC 806)*

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	PERCENT OF FIRMS REPORTING
All Other Health Professionals And Technicians	32999	81	0.6	NA
Public Relations Specialists And Publicity Writers	34008	19	0.1	45.8
All Other Professional, Paraprofessional And Technical Workers	39999	9	0.1	NA
SALES OCCUPATIONS	40000-49999	38	0.2	
Cashiers	49023	38	0.2	54.2
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	2,297	16.2	
First Line Supervisors And Manager/Supervisors	51002	107	0.7	79.2
Medical Secretaries	55105	266	1.9	75.0
All Other Secretaries	55199	381	2.6	NA
Stenographers	55302	32	0.2	16.7
Receptionists And Information Clerks	55305	108	0.8	50.0
Typists	55308	189	1.3	79.2
Personnel Clerks	55314	24	0.2	45.8
File Clerks	55321	77	0.5	45.8
Order Clerks	55323	11	0.1	16.7
Procurement Clerks	55326	11	0.1	45.8
Statistical Clerks	55328	29	0.2	33.3
Interviewing Clerks	55332	170	1.2	41.7
Bookkeeping, Accounting And Auditing Clerks	55338	67	0.5	79.2
Payroll & Timekeeping Clerks	55341	20	0.2	58.3
Billing, Cost And Rate Clerks	55344	142	1.0	75.0
General Office Clerks	55347	82	0.6	45.8
Billing, Posting, And Calculating Machine Operators	56002	29	0.2	16.7
Computer Operators	56011	26	0.2	33.3
Data Entry Keyers	56017	36	0.3	62.5
All Other Office Machine Operators	56099	8	0.1	NA
Switchboard Operators	57102	183	1.3	91.7

STAFFING PATTERNS

HOSPITALS IN NEW HAMPSHIRE

(SIC 806)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	PERCENT OF FIRMS REPORTING
Stock Clerks-Stockroom Warehouse Or Storage Yard	58023	75	0.5	66.7
All Other Material Recording Scheduling And Distribution Workers	58099	15	0.1	NA
All Other Clerical And Administrative Support Workers	59999	209	1.4	NA
SERVICE OCCUPATIONS	60000-69999	3,060	21.7	
Housekeepers	61008	130	0.9	83.3
All Other Service Supervisors And Managers	61099	33	0.2	NA
Guards And Watch Guards	63047	131	0.9	45.8
Food Servers, Outside	65011	52	0.4	16.7
Dining Room And Cafeteria Attendants	65014	96	0.7	12.5
Counter Attendants, Food	65017	60	0.4	29.2
Bakers, Bread And Pastry	65021	11	0.1	29.2
Cooks, Institution Or Cafeteria	65028	106	0.8	100.0
Cooks, Short Order	65035	21	0.2	25.0
Food Preparation Workers	65038	345	2.4	83.3
All Other Food Service Workers	65099	70	0.5	NA
Medical Assistants	66005	28	0.2	25.0
Nursing Aides, Orderlies, And Attendants	66008	1,039	7.4	100.0
Physical And Corrective Therapy Assistants And Aides	66017	46	0.3	58.3
Occupational Therapy Assistants And Aides	66021	18	0.1	25.0
Pharmacy Assistants	66026	90	0.6	62.5
All Other Health Service Workers	66099	148	1.1	NA
Maids And Housekeeping Cleaners	67002	525	3.7	95.8
Janitors And Cleaners	67005	90	0.6	58.3
All Other Cleaning And Building Service Workers	67099	15	0.1	NA
All other Service Workers	69999	6	0.1	NA

STAFFING PATTERNS

HOSPITALS IN NEW HAMPSHIRE

(SIC 806)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	PERCENT OF FIRMS REPORTING
AGRICULTURAL, FORESTRY, FISHING AND RELATED WORKERS	70000-79999	28	0.2	
Gardeners And Groundskeepers	79014	28	0.2	45.8
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	575	4.1	
First Line Supervisors And Manager/Supervisors	81002	26	0.2	50.0
All Other First Line Supervisors And Manager/Supervisors	81099	3	*	NA
Machinery Maintenance Mechanics	85110	50	0.4	25.0
Maintenance Repairers General Utility	85132	86	0.6	95.8
Heating, Air Conditioning, And Refrigeration Mechanics	85902	22	0.2	16.7
Electromedical And Biomedical Equipment Repairers	85908	16	0.1	25.0
All Other Mechanics, Installers And Repairers	85999	13	0.1	NA
Carpenters	87102	18	0.1	41.7
Electricians	87202	25	0.2	41.7
Painters And Paperhangers	87402	22	0.2	37.5
Plumbers And Pipefitters	87502	18	0.1	33.3
All other Construction Trade Workers	87899	2	*	NA
All Other Precision Workers	89999	2	*	NA
Sewing Machine Operators, Non-Garment	92721	11	0.1	16.7
Laundry And Drycleaning Machine Operators	92726	88	0.6	45.8
Pressing Machine Operatos	92728	17	0.1	16.7
Boiler Operators, Low Pressure	92926	29	0.2	37.5

STAFFING PATTERNS

HOSPITALS IN NEW HAMPSHIRE

(SIC 806)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	PERCENT OF FIRMS REPORTING
All Other Machine Setters And Set-Up Operators	92997	16	0.1	NA
All Other Machine Operators	92998	2	*	NA
All Other Hand Workers	93999	13	0.1	NA
All Other Plant And System Operators	95099	4	*	NA
All Other Motor Vehicle Operators	97199	23	0.2	NA
All Other Helpers, Laborers, And Material Movers, Hand	98000	69	0.5	12.5

* Less than 0.05 percent

STAFFING PATTERNS

HOSPITALS IN NEW HAMPSHIRE

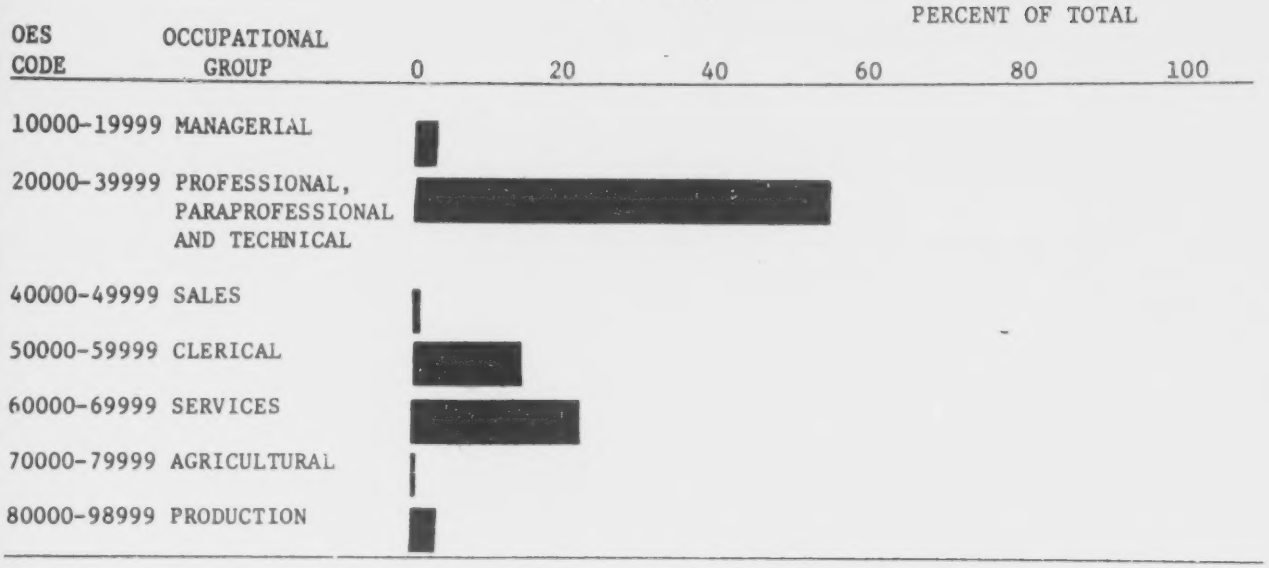
(SIC 806)

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Administrative Services Managers
Barbers
Biological and Agricultural Technicians and Technologists
Biological Scientists
Budget Analysts
Chemists
Chemical Technicians and Technologists, Except Health
Clergy
Dentists
Dental Assistants
Dental Hygienists
Dispatchers
Electrical and Electronic Engineers
Electrical and Electronic Technicians and Technologists
First Line Supervisors and Manager/ Supervisors-Construction Trades and Extractive Workers
Hairdressers, Hairstylists, and Cosmetologists
Hand Sewers
Industrial Engineers, Except Safety
Library Assistants and Bookmobile Drivers
Menders
Peripheral EDP Equipment Operators
Recreational Therapists
Stationary Engineers
Systems Analysts
Teachers and Instructors, Vocational Education and Training
Traffic, Shipping, and Receiving Clerks
Typists, Word Processor

PERCENT DISTRIBUTION OF
MAJOR OCCUPATIONAL GROUPS

HOSPITALS IN NEW HAMPSHIRE
(SIC 806)



ANNUAL AVERAGE EMPLOYMENT (in thousands)*

1972-1983
HOSPITALS IN NEW HAMPSHIRE**
(SIC 806)

YEAR	ANNUAL AVERAGE	PERCENT CHANGE
1972	9.6	-
1973	10.2	6.3
1974	10.7	4.9
1975	11.3	5.6
1976	11.6	2.7
1977	11.9	2.6
1978	12.3	3.4
1979	12.4	0.8
1980	13.0	4.1
1981	13.8	6.5
1982	14.0	1.3
1983	14.4	2.7

* ES-202 EMPLOYMENT
* * INCLUDES STATE AND LOCAL GOVERNMENT HOSPITALS

APPENDIX

I. HOSPITAL MODERNIZATION PROJECTS* 1983 - 84

MARY HITCHCOCK MEMORIAL, HANOVER, NH

PROJECT:	Construction/Renovation Hospital Facilities
PROJECT AMOUNT:	$62,210,000
DATE OF APPROVAL:	0/6/24/83

NEW LONDON HOSPITAL, NEW LONDON, NH

PROJECT:	Remodel Hospital and Expand Outpatient Area
PROJECT AMOUNT:	$1,666,434
DATE OF APPROVAL:	11/01/83

WENTWORTH-DOUGLASS, DOVER, NH

PROJECTS:	Add Radiation Therapy Program, Construct and Renovate Hospital Facility
PROJECT AMOUNTS:	$1,826,000 and $25,191,000
DATES OF APPROVAL:	11/29/83 and 06/05/84

HOSPITAL CORPORATION OF AMERICA, PORTSMOUTH, NH

PROJECTS:	Purchase Portsmouth Hospital, Construct a New Facility in Portsmouth, NH
PROJECT AMOUNTS:	$6,455,791 and $29,011,051
DATE OF APPROVAL:	06/05/84

SCEVA SPEARE MEMORIAL, PLYMOUTH, NH

PROJECTS:	Construct and Renovate Hospital Facilities
PROJECT AMOUNT:	$1,353,000
DATE OF APPROVAL:	06/05/84

ELLIOT HOSPITAL, MANCHESTER, NH

PROJECTS:	Establish and Operate an Ambulatory Surgical Center
PROJECT AMOUNT:	$654,803
DATE OF APPROVAL:	06/05/84

II. HOSPITAL MODERNIZATION PROJECTS UNDER REVIEW

HOSPITAL CORPORATION OF AMERICA, PORTSMOUTH, NH

PROJECT:	Construct A Psychiatric Pavilion in Portsmouth
PROJECT AMOUNT:	$8,023,754
DATE OF APPROVAL:	To Be Decided

SEABORNE HOSPITAL, DOVER, NH

PROJECT:	Add 15 Psychiatric Beds to 85 Bed Alcohol/Detox Hospital Presently Under Construction.
PROJECT AMOUNT:	$14,460
DATE OF APPROVAL:	To Be Decided

FRISBIE MEMORIAL, ROCHESTER, NH

PROJECT:	Develop and Operate 2 Occupational Therapy Centers (In Somersworth and Newington)
PROJECT AMOUNT:	$743,370
DATE OF APPROVAL:	To Be Decided

COTTAGE HOSPITAL, WOODSVILLE, NH

PROJECT:	Renovate Hospital and Add 6,336 Sq. Ft. to Facility
PROJECT AMOUNT:	$1,500,000
DATE OF APPROVAL:	To Be Decided

MARY HITCHCOCK MEMORIAL, HANOVER, NH

PROJECTS:	Purchase Or Lease A Mobile Ct Scanner, Purchase A Digital Subtraction Angiography System
PROJECT AMOUNTS:	$1,000,000 and $1,249,650
DATE OF APPROVAL:	To Be Decided

LITTLETON HOSPITAL, LITTLETON, NH

PROJECT:	Offer Mobile Ct Services
PROJECT AMOUNT:	$1,600,000
DATE OF APPROVAL:	To Be Decided

* HEALTH AND WELFARE, HEALTH PLANNING AND DEVELOPMENT OFFICE

METHODOLOGY

A. Sample and Survey Response

New Hamshire Hospital employment estimates were based on data furnished by responses to a survey conducted by the New Hampshire Department of Employment Security. The survey covered the payroll period including April 12, 1983. The survey universe was based on the 1982 ES-202 employment listing together with the employment and wage report of the New Hampshire State Hospital.

Usable responses were received from 23 establishments or 77 percent of the 30 hospitals included in the survey. The survey was conducted by mail and consisted of an initial mailing and one follow up. Phone calls were made when needed to insure the validity of the estimates.

B. Estimating Procedure

All usable employer questionnaires were separated into seven employment size groups by industry. For example, establishments with employment of 4-9 would be in one size class and those with employment of 10-19 would be in another size class, etc. One size class in one industry represents an estimating cell. All establishments in a given estimating cell were assigned a sample weight which is the inverse of the sampling ratio. Since a universe count of New Hampshire hospitals were included in the sample, the sampling ratio in each size class was one-to-one. Therefore, the sample weight assigned to each establishment in each estimating cell was one. However, if the universe were not taken in the survey sample, the sample weight assigned to some of the smaller establishments would have been a weight other than one. For example, if the reported employment in a specific occupation for an establishment is 100, and only one out of two establishments in this estimating cell is included in the sample, the weight assigned to this establishment would be the inverse of ½ which is two, and for estimating purposes, the 100 employment would have a representation of 200 (2 X 100). The employment for any specific occupation in each establishment is blown-up (inflated) by its sample weight and summed for all sample establishments in the cell. A ratio is then obtained by dividing this sum by the weighted total employment. This ratio is multiplied by the benchmark employment for that estimating cell corresponding to the survey month of April 1983. This yields the occupational make-up of the estimating cell for that month. Finally, the employment in like occupations are summed across all employment size classes within the three-digit SIC (Standard Industrial Classification) level to arrive at a total industry employment for each occupation.

APPENDIX

The new OES coding structure provides for the allocation of occupations reported into seven major categories. Specifically these occupational categories are as follows:

10000-19999 I. Managerial and Administrative Occupations

Includes top and middle level managers, administrators, and executives. Primary duties are policy making, planning, staffing, directing or controlling the activities of industrial, commercial, governmental or other establishments. Typical examples are: Corporate Officers; Plant Managers; Branch Managers; District Managers; Production Superintendents; General Superintendents; and Managers of such departments as budget, purchasing, sales and distribution, advertising, public relations, personnel and training, etc.

20000-39000 II. Professional, Paraprofessional and Technical Occupations

Includes persons concerned with the theoretical or practical aspects of such fields as science, art, education, law and business relations where substantial post-secondary educational preparation or equivalent on-the-job training or experience is required. Typical examples are: Architects; Engineers; Metallurgists; Physicists; Mathmeticians; Statisticians; Biologists; Economists; Accountants and Auditors; Purchasing Agents; Public Relations Practitioners; Personnel and Training Specialists (other than departmental managers); Lawyers; Physicians and Surgeons; Registered Nurses; Editors and Writers; Teachers; Air Traffic Controllers; Computer Programmers; Drafters; and Chemical Technicians (except Health).

40000-49000 III. Sales and Related Occupations

Includes persons selling goods or services and others directly related to sales. Typical examples are: Sales Agents and Placers. Insurance; Sales Engineers; Cashiers; and Salespersons, Retail.

50000-59999 IV. Clerical and Administrative Support Occupations

Includes persons performing office and plant clerical tasks such as typing, filing, computer operating, records keeping (personnel, stock, production, billing, etc.); and mail preparation and distributing.

60000-69999 V. Service Occupations

Includes workers in occupations relating to protective service, food service, health assisting service, cleaning and building service and personal service.

70000-79999 VI. Agricultural, Forestry, Fishing and Related Occupations

Includes workers concerned with agricultural production, forestry, and fishing. Also included in this division are agriculture related workers such as animal caretakers and groundskeepers.

80000-98999 VII. Production, Construction, Operating, Maintenance and Material Handling Occupations

Includes all skilled, semiskilled and unskilled workers performing machine and manual tasks involving production, construction, operating, maintenance, repair and material handling operations.

Explanation of Footnotes:

1/ Employment estimate represents covered employment adjusted for additional current information. Data entries were not rounded in order to preserve their analytic value. However, they should not be construed as being absolute but rather as relative values.

2/ Relative errors apply equally to estimated employment and the present distribution. Please refer to technical notes for an explanation of relative error.

N.A. Not applicable

AVAILABLE OCCUPATIONAL PROFILES
AS OF APRIL 1985

INDUSTRY	SURVEY YEAR	DATE PUBLISHED
WHOLESALE AND RETAIL TRADE	1982	October 1983
TRANSPORTATION, COMMUNICATIONS AND PUBLIC UTILITIES	1982	October 1983
FEDERAL, STATE AND LOCAL GOVERNMENT	1982	October 1983
MANUFACTURING	1980	August 1981
HOSPITALS	1980	March 1981
CONTRACT CONSTRUCTION, FINANCE, INSURANCE AND REAL ESTATE, SERVICES	1981	NONE
WHOLESALE AND RETAIL TRADE	1979	December 1980
TRANSPORTATION, COMMUNICATIONS AND PUBLIC UTILITIES	1979	December 1980
FEDERAL, STATE AND LOCAL GOVERNMENT	1979	November 1980
ELEMENTARY AND SECONDARY SCHOOLS, COLLEGES AND UNIVERSITIES	1978	November 1980
CONTRACT CONSTRUCTION, FINANCE, INSURANCE, AND REAL ESTATE, SERVICES	1978	November 1979
MANUFACTURING	1983	March 1985
HOSPITALS	1983	March 1985

FUTURE PUBLICATIONS	SURVEY YEAR
CONTRACT CONSTRUCTION, FINANCE, INSURANCE, AND REAL ESTATE, SERVICES	1984
ELEMENTARY AND SECONDARY SCHOOLS, COLLEGES AND UNIVERSITIES	1985
FEDERAL, STATE AND LOCAL GOVERNMENT	1985
WHOLESALE AND RETAIL TRADE	1985
TRANSPORTATION, COMMUNICATIONS AND PUBLIC UTILITIES	1985